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In re Application of

Application Number

07/579,569

Filed

9/10/90

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US006172464B1

(12) **United States Patent**
Nilssen

(10) **Patent No.:** **US 6,172,464 B1**
(45) **Date of Patent:** **Jan. 9, 2001**

(54) **COMPACT SCREW-IN FLUORESCENT LAMP**

(76) **Inventor:** Ole K. Nilssen, Caesar Dr., Barrington, IL (US) 60010

(*) **Notice:** Under 35 U.S.C. 154(b), the term of this patent shall be extended for 0 days.

(21) **Appl. No.:** 08/394,251

(22) **Filed:** Feb. 24, 1995

Related U.S. Application Data

(63) Continuation-in-part of application No. 07/579,569, filed on Sep. 10, 1990, now abandoned, which is a continuation-in-part of application No. 06/787,692, filed on Oct. 15, 1985, now abandoned, which is a continuation of application No. 06/644,155, filed on Aug. 27, 1984, now abandoned, which is a continuation of application No. 06/555,426, filed on Nov. 23, 1983, now abandoned, which is a continuation of application No. 06/178,107, filed on Aug. 14, 1980, now abandoned.

(51) **Int. Cl.⁷** H01J 13/46; H01J 17/34; H01J 19/78

(52) **U.S. Cl.** 315/56; 315/71; 315/DIG. 7; 315/DIG. 4; 315/DIG. 5; 315/219; 315/224; 315/205

(58) **Field of Search** 315/56, 71, 36, 315/DIG. 4, DIG. 5, DIG. 7, 307, 291, 219, 209 R, 224, 205

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Primary Examiner—Michael B Shingleton

(57) **ABSTRACT**

In a high-frequency electronic ballast, a fluorescent lamp is connected with and powered by way of a series-resonant LC circuit. A resistive load is connected with the LC circuit, thereby to constitute a load therefor before ignition of the fluorescent lamp or in case the fluorescent lamp were to fail to ignite.

6 Claims, 3 Drawing Sheets

